

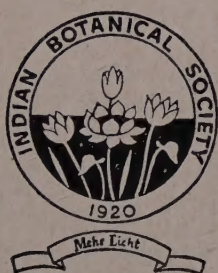
The Journal

of

The Indian Botanical Society

VOL. XXXVIII—1959—60

39



QK
358
J8

EDITORIAL BOARD

T. S. Sadasivan, *Editor-in-Chief*

P. Maheshwari
New Delhi

B. P. Pal
New Delhi

A. C. Joshi
Chandigarh

H. Santapau
Bombay

M. Sayeed-ud-Din
Osmania University

B. Samantarai
Utkal University

A. Abraham
University of Kerala

R. Misra
Banaras Hindu University

J. Venkateswarlu
Andhra University

Published by the Indian Botanical Society

CONTENTS

Volume 38, 1959

No. 1

	PAGE
The Status of the Plant Communities in Upper Gangetic Plain.. Misra, R.	1
Studies on the Autecology of <i>Gisekia pharnaceoides</i> Linn..... Joshi, M. C. and Kambhoj, O. P.	8
Vascular Anatomy of the Flower of <i>Punica granatum</i> Linn. Sinha, S. C. and Joshi, B. C.	35
Contributions to the Embryology of Palmæ. II. Ceroxylineæ.... Venkata Rao, C.	46
Synthesis of Amino Acids and Amides by Nitrogen-starved Wheat Seedlings Supplied with Ammonium Sulphate.... Austin, A.	76
Staminal Teratology in Genus <i>Nicotiana</i> Krishnamurthy, K. V. and Bhat, N. R.	84
Foliar Calcium in <i>Anogeissus latifolia</i> Wall..... Joshi, S. R.	93
Structure and Development of Seeds in <i>Euphorbia geniculata</i> Orteg..... Sankatha Prasad Singh	103
An Apparatus for Sampling Water and Mud from the Deeper Strata of the Lakes..... Zafar, A. R.	109
Studies on Nitrogen Fixation by Blue-Green Algæ. I. Nitrogen Fixation by <i>Cylindrospermum sphaerica</i> Prasad..... Venkataraman, G. S., Dutta, N. and Natarajan, K. V.	114
Studies in the Order Piperales. III. A Contribution to the Study of Floral Morphology of Some Species of <i>Peperomia</i> Murthy, Y. S.	120
Meiotic Behaviour and Pollen Fertility in Some Varieties of <i>Bougainvillea</i> Thambi Ninan, Singh, M. P. and Swaminathan, M. S.	140
Genus <i>Riccia</i> in India. IV. A New <i>Riccia</i> , <i>Riccia pandei</i> Udar sp. nov. from Garhwal with a Note on the Species of the Genus from the West Himalayan Territory.... Ram Udar	146

No. 2

Test-Tube Fruits and Seeds..... Maheshwari, P.	161
Grasses of Pavagarh..... Chavan, A. R. and Mehta, A. R.	171

DE.

M15578
6675
10 new

	PAGE
Recent Trends in the Flora of the Bihar State.... Srivastava, J. G.	186
Studies in the Order Piperales. VII. A Contribution to the Study of Morphology of <i>Saururus cernuus</i> L... Murthy, Y. S.	195
Additional Hosts for Flowering Parasite, <i>Dendrophthoe falcata</i> (Lf.) Ettingsh (<i>Loranthus longiflorus</i> Desr.).....	204
..... Ravindra Nath, V. and Narasimha Rao, V. L.	
Hepaticæ of Bengal. I. Sporeling Germination and Taxonomy of <i>Riccia pimodii</i> sp. nov. from Burdwan.... Kachroo, P.	213
The Pezizaceæ of the Mussoorie Hills—VI.....	221
..... Thind, K. S. and Pritam Singh	
Influence of Certain Growth Substances on Cotton Plant. I. Effect of <i>b</i> -Naphthoxy Acetic Acid on Boll-Retention in <i>Gossypium arboreum</i> var. 35/1..... Mathur, S. N.	233
Response of Tea Bushes to Foliar Application of Fertilisers.....	239
..... Venkataramani, K. S.	
Paddy Field Weed Flora of the State Agricultural Farm, Chinsurah (West Bengal).....	249
..... Paul, A. K. and Bhattacharyya, R. K.	
A Further Contribution to the Structure and Affinities of <i>Cyclanthodendron sahnii</i> from the Deccan Intertrappean Series of India..... Ramanujam, C. G. K.	254
A Contribution to the Study of Amaranthaceæ. <i>Telanthera</i> <i>ficoidea</i> Moq..... Srivastava, G. P.	268
Cytology of a Few Low Sterile Plants in <i>Nicotiana tabacum</i> L. Gopinath, D. M.	274
The Embryology of <i>Borreria hispida</i> K. Schum. (= <i>Spermacoce</i> <i>hispida</i> Linn.) (Rubiaceæ)—A Reinvestigation.. Farooq, M.	280
Floral Anatomy of Meliaceæ—II..... Narayana, L. L.	288
Aberrant Division of the Meiotic Chromosomes in <i>Sorghum</i> <i>helepense</i> Pers..... Raman, V. S. and Krishnaswami, D.	296
Review	299

No. 3

Article 35 of the International Code of Botanical Nomenclature Santapau, H.	301
Fresh-Water Diatoms from Sagar in the Mysore State.....	305
..... Gandhi, H. P.	
A History of the Genus <i>Pycnolejeunea</i> (Spr.) Schiffn.. Kachroo, P.	332

	PAGE
Leaf Analysis as a Means of Crop Nutrition Studies. I. Effect of Phosphate Supply on the Growth, Yield and Composition of <i>Hordeum vulgare</i> L.....Niranjan Das	338
Studies on Meliaceæ. I. Floral Morphology and Embryology of <i>Naragamia alata</i> W. & A.....Nair, N. C.	353
Studies in Meliaceæ. II. Floral Morphology and Embryology of <i>Melia azedarach</i> Linn.—A Reinvestigation....Nair, N. C.	367
Observations on a Virus Disease of Garden Nasturtium (<i>Tropæolum majus</i> L.) Occurring in Naini Tal.....Bhargava, K. S. and Joshi, R. D.	379
Velamen in Terrestrial Monocots. I. Ontogeny and Morphology of Velamen in the Liliaceæ.....Mulay, B. N. and Deshpande, B. D.	383
A Study of the Gametophytes in <i>Impatiens leschenaultii</i> Wall.....Narayana, L. L. and Sayeeduddin, M.	391
A Note on the Species of <i>Stichococcus</i> and <i>Hormidium</i> from Delhi.....Randhawa, M. S.	398
Cytomorphological Studies of <i>Oligotrichum</i> Lam. et De Cand.....Chopra, R. S. and Sharma, P. D.	400
A Double Flower of <i>Tecomella undulata</i> Seem....Shukla, R. D.	415
Notes on Fungi from North-East India. IV. Myxomycetes.....Agnihothrudu, V.	418
Announcement	452
Proceedings of the Annual Meeting, 1959.....	i-xiv

No. 4

Notes on Fungi from North-East India. IV. Myxomycetes (Continued).....Agnihothrudu, V.	453
A Contribution to the Flora of Alagar Hills, Karandamalais and Surrounding Regions in Madurai District, Madras State.....Subramanyam, K. and Henry, A. N.	492
Cytotaxonomic Notes on Some Aspleniaceæ from Kulu Valley.....Bir, S. S.	528
The Genus <i>Riccardia</i> Grey in India. II. <i>Riccardia palmatifomis</i> Schffn. and <i>R. decolyana</i> Schffn.....Schiffner, V., Pandé, S. K. and Srivastava, K. P.	538
A New Species of <i>Chaetomium</i> from Hyderabad-Dn.....Salam, M. A. and (Miss) Nusrath, M.	543

	PAGE
A New Species of <i>Haplosporella</i> from Assam.....	
.....Agnihothrudu, V. and Hadfield, William	546
Two Years' Observation on the Periodicity of Euglenineæ in Two Fish Breeding Ponds.....	Zafar, A. R. 549
Genetic Studies in Barley I. Inheritance of Pigmentation in Various Plant Parts.....	Murty, G. S. and Jain, K. B. L. 561
Indian Species of <i>Rauvolfia</i>	Sulochana, (Miss) C. B. 575
Review	595
Obituary—Professor G. P. Majumdar.....	597